

*C 1*  
*Cont*

*P1* exposing hypocotyl tissue of immature cotton plants to a culture of transformation competent non-oncogenic Agrobacterium tumefaciens harboring a Ti plasmid having a T-DNA region including both a foreign chimeric gene and a selection agent resistance gene, both genes including appropriate regulatory sequences so as to be expressed in the cells of cotton plants;

*P1* culturing the exposed tissue in the presence of a selection agent for which the resistance gene encodes for resistance so as to select for plant cells transformed with the T-DNA region;

*P1* inducing somatic embryo formation in the exposed tissue in culture; and

*P1* regenerating the somatic embryos into whole cotton plants.

*C 2*

*2. (Amended)* The method of Claim [1] ~~2~~ wherein said exposing step is preceded by surface sterilization of cotton seeds followed by germination of said cotton seeds to form said immature cotton plants.

*3. (Amended)* The method of Claim [1] ~~2~~ wherein the hypocotyl tissue comprises pieces of hypocotyl explants which are removed from said immature cotton plants.

*4. (Amended)* The method of Claim [1] ~~2~~ wherein the culture of Agrobacterium tumefaciens harbors a binary Ti plasmid system in which a virulence trait is carried on a plasmid separate from the plasmid carrying the T-DNA region.

*C 3*  
*NP*

*5. (Amended)* The method of Claim [1] ~~2~~ further including, after the step of exposing the tissue to said Agrobacterium tumefaciens, culturing the tissue on a medium containing at least one antibiotic toxic to said Agrobacterium tumefaciens but not toxic to cotton cells.

Remarks

*NK*

By an Office Action dated Jan. 3, 1989 in the file of the above-identified patent application, the Examiner in charge of this application has finally rejected all the pending claims under 35 U.S.C. §103 over a combination of